


## DETECTION OF MUTAGENIC SUBSTANCE WITH TRANSGENIC FISHES

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### Abstract

**PURPOSE:** To obtain a transgenic fish having a monitor gene for detecting a mutagenic substance and capable of highly accurately detecting carcinogenic substances by a simple method.

**CONSTITUTION:** Shuttle vectors each containing a monitor gene for detecting a mutagenic substance are introduced into fertilized roe of a fish to produce chimera fishes, from which a chimera fish into whose germ cells the monitor genes for detecting the mutagenic substance are introduced is screened. The screened chimera fish is mated with a wild type fish, and a fish containing the monitor gene for detecting the mutagenic substance is screened from the obtained fishes to produce the transgenic fish.